The third largest mosque in the world accommodating 40,000 people and occupying a total site area of more than 72,000 square meters. It exemplifies the timelessness of Islamic architecture and bridges the gap between traditional and contemporary structures.
Arcadis is the leading global Design & Consultancy firm for natural and built assets. Applying our deep market sector insights and collective design, consultancy, engineering, project and cost management services, we work in partnership with our clients to deliver exceptional and sustainable outcomes throughout the lifecycle of their natural and built assets.

Our first project in the Middle East dates back to 1904 when we advised the Yemen authorities on developing their water supply and management strategy. Since then, we have built an established presence and have had registered offices in the UAE, Qatar and Bahrain for more than 40 years. We continue to grow our footprint and support clients in delivering complex projects wherever they need our advice.

Across the Middle East today we employ 2200 dedicated professionals based across 10 offices within the UAE, Qatar, Saudi Arabia, Oman, Bahrain and Jordan. We can also call upon the skills and experience of 25,000 other colleagues based across our global network. This ability to combine strong local market insight and international expertise enables us to deliver the right outcomes for our clients and improve quality of life across the region.
Arcadis is the leading global Design & Consultancy firm for natural and built assets. Applying our deep market sector insights and collective design, consultancy, engineering, project and management services we work in partnership with our clients to deliver exceptional and sustainable outcomes throughout the lifecycle of their natural and built assets. We are 27,000 people active in over 70 countries that generate €3.3 billion in revenues. We support UN-Habitat with knowledge and expertise to improve the quality of life in rapidly growing cities around the world. Arcadis. Improving quality of life.
WHAT WE DO

DESIGN & CONSULTANCY
Applying our deep market sector insights and collective design, consultancy, engineering, project and management services we work in partnership with our clients to deliver exceptional and sustainable outcomes throughout the lifecycle of their natural and built assets. Our 27,000 leading experts are experienced in delivering solutions to our clients across the whole lifecycle of their natural and built assets, whatever their sector, industry or location.

DESIGN
- ARCHITECTURE
- MASTER PLANNING
- ENVIRONMENTAL SCIENCE
- BUSINESS ADVISORY

CONSULTANCY
- COST MANAGEMENT
- CONTRACT SOLUTIONS
- PROGRAM & PROTECT MANAGEMENT

NATURAL AND BUILT ASSETS
The natural and built environment surrounds us every day; it both shapes and defines the world we live in. Thinking of the components of the natural and physical or ‘built’ world as ‘assets’ or resources, helps us define and consider how these can be optimized, maximized or protected to ensure they continue to deliver value for years to come. Natural assets include water, natural energy, minerals, air, land etc. While built assets define ‘man made’ resources that we use to improve our quality of life, every day from transportation infrastructure, to buildings, public green spaces and so on.

NATURAL ASSETS
- AIR
- LAND
- WATER

CONSULTANCY
- BUILDINGS
- INFRASTRUCTURE
- POWER & ENERGY
Our mission is to create exceptional and sustainable outcomes for our clients in natural and built asset environments. We understand that we will only achieve this by working differently and achieving our goals to create sustainable solutions and deliver exceptional outcomes for our clients, while helping our people realize their potential and enjoying the journey together. What makes us different?
IMPROVING QUALITY OF LIFE

WE FOCUS ON DELIVERING EXCEPTIONAL AND SUSTAINABLE OUTCOMES
Focusing on achieving outcomes ensures the services, solutions and propositions we deliver on client projects and programs of work are designed to help them achieve, if not exceed, their overarching goals. We do this safely and consistently, for every client, whatever the challenge; wherever they are in the world.

WE UNDERSTAND OUR CLIENTS’ BUSINESSES AND EVOLVING NEEDS
We are known for the depth of our technical knowledge and expertise in the planning, creation, operation and renewal or regeneration of natural and built assets. Our capabilities span a wide range of professional disciplines, 18 core value propositions, 19 global market sectors and experience of operating in over 70 countries.

WE ARE LEADERS IN DESIGNING, CREATING, OPERATING AND MAINTAINING SUSTAINABLE SOCIETIES
The world continues to develop and change, at a pace of increasing alacrity, and with it mounting pressure on our natural and built resources. At Arcadis, we understand that cities, urban and rural habitats need to respond to societal changes, whether it be rapid urbanization, increased mobility or environmental changes, we help clients meet the challenge safely, securely and in a way that improves quality of life.

WE ARE NEVER FAR FROM WHERE YOU NEED US
Our global network of some 300+ offices worldwide ensures we are never far from where our clients need us. We believe in the power of diversity, combining our global capabilities with local knowledge. Operating to the highest standards of health, safety and integrity gives our clients a long term partner they can trust.

and being recognized as the best...
OUR PLEDGE TO SUSTAINABILITY

We operate our business in a social responsible and sustainable way through our global Corporate Social Responsibility policy, anchored in ARCADIS’ General Business Principles.

We record and report our sustainability efforts and global carbon footprint metrics on an annual basis.

We have signed the United Nations Global Compact initiative concerning Corporate Social Responsibility in 2009.

We have launched a partnership with United Nations HABITAT Program in 2010.

courtesy of http://relatorioanual2010.oi.com.br/
WITH THE HELP OF OUR GLOBAL EXPERTISE

Our global network enables us to seamlessly bring our knowledge and experience of projects worldwide and apply that expertise to specific local needs and situations.

27,000 people | 300+ offices | 40 countries | 30,000+ projects

North America
~6,700

Latin America
~3,300

UK
~3,600

Continental Europe
~5,200

Middle East
~2,200

Asia
~6,000

Australia
Bahrain
Belgium
Brazil
Brunei
Canada
Chile
China
Czech Republic
France
Germany
Hong Kong
India
Indonesia
Italy
Jordan
Kazakhstan
Korea
Macau
Malaysia
Mexico
Mozambique
Netherlands
Oman
Peru
Philippines
Poland
Qatar
Romania
Russia
Saudi Arabia
Serbia
Singapore
Slovakia
Spain
Switzerland
Taiwan
Thailand
United Arab Emirates
United Kingdom
United States
Vietnam

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WE DELIVER PROJECTS ACROSS THE MIDDLE EAST

GROSS REVENUE IN 2015
>€269 million

PEOPLE IN MIDDLE EAST
2,200

PRESENCE IN MIDDLE EAST
110+ years

COMPLEMENTARY BUSINESS LINES
- INFRASTRUCTURE 36%
- WATER 14%
- BUILDINGS 48%
- ENVIRONMENT 2%
WE DIFFERENTIATE BY ADDRESSING NEEDS THROUGHOUT THE ASSET LIFE CYCLE

- Highest Value Strategic Planning
- Minimizing Environmental Impact Through Innovative Science and Technology
- Opportunity Led Regeneration, Decommissioning and Disposal of Legacy Assets
- Performance Driven Lifecycle Operation and Facilities Management
- Positive Outcomes Delivered
- Planning Assets
- Creating Assets
- Operating Assets
- Redefining Assets
- Commercially Led Program, Project and Cost Delivery Management
- Performance Driven Design and Engineering
- Business Aligned Asset Strategy and Transformation
- Using Assets Knowledge to Secure Investment and Finance
OUR BUSINESS LINES

WATER
As a global top five player in water, we focus on the entire water cycle, including analysis and design of drinking water supply systems. We advise on advanced treatment technologies for waste water and deliver design, engineering and management services for public utilities and private sector industrial clients. Through our ‘Water for Industry’ initiative we help industrial clients reduce their water footprint. We are also active in managing rivers and coastal zones, urban and rural water, and water management issues related to climate change and rising sea levels.

ENVIRONMENT
Arcadis is the leading global environmental solutions provider to private industry, and delivers solutions that protect the Earth’s resources while meeting our clients’ economic objectives. From soil, groundwater and sediment remediation and environmental impact assessments, through to consultancy on corporate energy, product stewardship, health and safety and waste management issues, our solutions support environmental policies for companies and governments alike. Our strategic environmental consulting solutions address potential operational, regulatory and/or third-party liabilities.

BUILDINGS
We help leading clients transform their business performance by planning, creating, operating and regenerating their buildings to ensure they are a source of competitive advantage, meet business needs, and generate sustaining business value. We call this Built Asset Consultancy. We deliver world-class architecture, planning, consultancy, detailed engineering design, project, program and cost management solutions for a wide range of building types from commercial properties to hospitals, schools, government buildings and industrial facilities. We create a balance of form, functionality and environmental stewardship.

INFRASTRUCTURE
Our infrastructure solutions create the conditions for efficient transportation. We provide business advisory, design, engineering and program management for some of the world’s most complex infrastructure projects. By working on high-quality and safe railways, road networks (including tunnels and bridges), ports and waterways and reliable energy supply systems, Arcadis’ infrastructure professionals bring stability, mobility and a better quality of life to communities around the world.

Our four global business lines enable us to work across disciplines and geographies to deliver integrated solutions to complex challenges. Our goal is to support our clients’ businesses and create sustainable and exceptional outcomes in all the projects we undertake on their behalf.
ENABLE US TO DELIVER VALUE FOR OUR CLIENTS

BUILDINGS

MASTER PLANNING & SUSTAINABLE URBAN DEVELOPMENT
Delivers comprehensive approaches to urban development, planning and design, landscaping, (smart) transportation planning, urban regeneration and masterplanning.

BUSINESS ADVISORY
Focuses on assisting clients in assessing and planning out the viability of asset developments or transformations, judging components such as finance & funding, assurance and portfolio, and improving asset performance through optimization strategies.

PERFORMANCE DRIVEN DESIGN
Touches on buildings design, documentation & delivery, engineering, analytics and performance evaluations to ensure that clients realize buildings that are aligned to their business, brand and design needs.

COMMERCIALISED LED PROGRAM MANAGEMENT
Exemplifies our program, project and cost management solutions and capabilities in complex real estate projects and large infrastructure development programs.

CONTRACT SOLUTIONS
Assists clients with complex issues like strategic procurement & contract advice, providing dispute avoidance or dispute resolution, as well as forensic support and expert witness services.

ENVIRONMENT

ENVIRONMENTAL PLANNING
Focuses on corporate environmental, social and health impact assessments, regulatory environmental impact assessments, mitigation, and monitoring solutions and independent expert reviews.

SITE EVALUATION AND RESTORATION
Provides restoration strategy, site investigation, remedy design & implementation and is focused on assisting clients in complex and large or multisite environmental solutions.

ENVIRONMENTAL CONSTRUCTION
Focuses on delivering earthworks & sediments, treatment systems, (D4)– Deactivation, Decommissioning, Decontamination and Demolition–and operations/maintenance and monitoring in a cost effective and highly controlled way.

STRATEGIC ENVIRONMENTAL CONSULTING
Provides audits, due diligence, environmental management systems, safety & risk management approaches and strategic consulting for clients to ensure regulatory compliance, product stewardship, air quality, and sustainability.

WATER

WATER FOR INDUSTRY
Strives to make businesses better through sustainable effective water supply, treatment, management and conveyance solutions. This covers any water work for private, industrial clients, including the oil & gas, mining, chemical/ pharmaceutical, automotive, conglomerate, power, and food and beverage sectors.

WATER SUPPLY & TREATMENT
Provide safe water and protects the environment encompassing drinking water (planning, supply and treatment), wastewater (planning, treatment, and disposal) and reclaimed water (planning treatment, and reuse).

WATER CONVEYANCE
Allows water to move reliably and efficiently to solve our clients’ distribution, collection and drainage needs. This includes water (distribution systems for drinking water and reclaimed water, tunnels, pumping and storage), wastewater (collection systems for sanitary and combined sewers, tunnels, pumping and storage), and storm water (urban water drainage, collection/treatment systems, tunnels, green/ sustainable infrastructure, pumping and storage).

WATER MANAGEMENT
Enhances the quality, safety and adaptability of urban and coastal, river-based and delta ecosystems. This includes systems (integrated coastal zone management, coastal restoration & protection, delta cities), flood management (flood risk management, dams, levees, storm surge barriers; climate change adaptation, risk and resiliency), riverine systems, and integrated water resource systems/ ecosystems.

INFRASTRUCTURE

RAIL AND URBAN TRANSPORT SOLUTIONS
Delivers comprehensive approaches to infrastructure management solutions that cover all Rail and Urban Transport solutions (light, heavy, freight, high speed) and associated infrastructure, such as bridges and tunnels.

HIGHWAYS AND INTELLIGENT TRAFFIC MANAGEMENT SOLUTIONS
Creates smart solutions throughout the lifecycle of road assets. We add value to the consulting, design and program and construction management of large and complex programs and have extensive expertise in designing bridges and tunnels for road systems.

AIRPORT SOLUTIONS
Offer global strengths throughout the asset lifecycle delivering planning, design, feasibility studies & operational improvement to new airports or the expansion of existing airports.

PORTS & INDUSTRIAL INFRASTRUCTURE SOLUTIONS
Offer reliable and cost-effective solutions for ports, power and industrial infrastructure based on international best practices, including planning, design, project and program management for harbor extensions, upgrades or fully new harbor development.

MINING SOLUTIONS
Serve global mining clients by planning, designing and managing the lifecycle of mining assets. Includes mine development and exploration solutions, transportation and end product logistics and distribution.
ACROSS A WIDE RANGE OF SECTORS

CITIES
The world around us is changing at a faster pace than ever before as Planet Earth’s rapidly growing population flocks to urban centers, placing ever-increasing pressure on resources, space and safety. Our cities need to respond to these stresses and quickly – their livability and competitiveness depends on it. Arcadis works with cities across the world, giving them a competitive edge and improving quality of life for their residents, visitors and businesses by building programs that expand resiliency, encourage regeneration, and maximize mobility.

COMMERCIAL DEVELOPERS
Global trends such as urbanization, the rise of e-commerce and a new way of working are all having their impact on the commercial real estate landscape. In today’s evolving market, investors and developers need to stay competitive by thinking about how they can make the most of these trends to their benefit and to continue to increase the returns on their investments and developments. Commercial developers need partners that can help them reduce the risk of their investments. This requires expertise on forecasting market demand, to acquiring land at the best price, optimizing the construction process, and minimizing the operational cost of the asset. We have a track record of helping our clients create high value developments, through our design, program management and cost optimization solutions. These cover the full lifecycle of a development from site identification, planning, design and execution, through to controlled exit strategies.

CONTRACTORS
Whether it is meeting growing demand for design and build, delivering major mixed development programs or coping with a market shift from building new assets to improving the efficiency of existing assets, Contractors need to constantly adapt. The complexity of the challenges is increasing at the same time as clients want to transfer more risk and have greater certainty of returns. Facing these dynamics, contractors require a smart combination of market knowledge, local presence, experience and know-how with leading global technical solutions across the whole asset lifecycle. Our significant experience in the design and management of complex infrastructure programs, including in MEP tunnels, skyscrapers, in rail, and in BIM, enable us to bring smart solutions to our contractor clients, ensuring design is aligned with ‘constructability’. Coupled with strong working relationships with leading global investors, a deep understanding of asset management and operation, we help make clients projects a reality.

ENERGY AND NATURAL RESOURCES
The consumption of energy and access to natural resources is one of the biggest geopolitical issues of our time. We understand the opportunities and challenges faced by global energy suppliers as well as the complexities brought about by ever-changing market conditions and regulations. Our experts support our clients across an asset’s lifecycle in implementing safe, efficient, and sustainable solutions to achieve their business goals.

INDUSTRIALS
With a clear focus on the industrial value chain, we achieve better operational efficiencies for our clients and act as an enabler towards opportunities that new markets and technologies bring. With our specialist knowledge in the automotive, chemical & pharmaceuticals, and conglomerates & manufacturing sectors, we help our clients to meet their industry’s challenges and achieve competitive advantage through combining our technical expertise with deep industry knowledge.

FINANCIAL INSTITUTIONS
For financial institutions, knowing what to expect when it comes to investment returns is everything. Be it infrastructure, real estate or even internal capital projects, our experts’ long-standing experience of investment, finance, design and delivery means that we can provide our clients with the certainty of outcome they require. In the Middle East, our enviable track record positions us as a preferred partner with many of the renowned banks and institutions: from technical due diligence prior to financing a project, to project monitoring, branch portfolio refits, as well as office headquarter buildings. The Middle East provides the most diverse range of needs for our clients in this sector requiring expertise across a vast range of assets and investments. Our depth of knowledge and breadth of skill enables us to advise on these possibilities providing our clients with optimized solutions.

WATER AND UTILITIES
Water and utilities are essential to human life. However, generating and processing enough energy and water to meet the demands of rapid urbanization and population growth is one of the biggest challenges facing the world today. Our broad range of expertise means we have what it takes to deliver for our clients wherever they are in the world.

PUBLIC SECTOR
In the wake of the global financial crisis, public sector bodies are under greater scrutiny than ever before, both financial and regulatory. Increased efficiencies and performance improvements are an ongoing challenge. Our people help our clients in education, healthcare and public sector to deliver better services more efficiently. We act as a trusted advisor to many governments and authorities who need their built assets to be designed more efficiently and deliver more. We help create public places that support the economic, environmental and social development of cities and towns as efficiently and effectively as possible.

RETAIL
In the wake of the global financial crisis, public sector bodies are under greater scrutiny than ever before, both financial and regulatory. Increased efficiencies and performance improvements are an ongoing challenge. Our people help our clients in education, healthcare and public sector to deliver better services more efficiently. We act as a trusted advisor to many governments and authorities who need their built assets to be designed more efficiently and deliver more. We help create public places that support the economic, environmental and social development of cities and towns as efficiently and effectively as possible.

TRANSPORTATION
Transportation is, quite literally, what makes the world go around. We understand the importance of efficient road, rail, marine and air transport facilities. Today’s transportation projects need to meet the evolving demands of growing populations, whilst demonstrating financial and social value, while not irreparably damaging the natural environment. Our people have the experience and wide-ranging expertise to plan, design, build and manage the infrastructure of the future. Wherever in the world our clients need, from urban transport and intelligent highways to ports, waterways and aviation, we have the right people to deliver even the most complex transportation projects safely and effectively.
At Arcadis, we have the opportunity to work with the most innovative and leading organizations in the Middle East.

Here are just a few of the fantastic programs we have delivered...
Emaar’s vision was breathtaking: turning an old military camp on the fringe of the desert into a new city centre and tourist attraction, with the world’s tallest building at its heart.

Having already designed and engineered some of the world’s most iconic structures, we rose to the challenge.

We drew on a team of 130 to provide a variety of design and consultancy services for a broad range of work across Downtown Dubai, including landmarks such as The Dubai Fountain, The Dubai Mall and the pedestrian bridge.

For the Burj Khalifa tower itself, we provided the independent peer review of the structural system for the designer, SOM, and eventually were awarded the role of Architect and Engineer of Record, requiring us to adopt SOM’s design and supervise construction.

Today, Downtown Dubai is testament to what vision combined with expertise can achieve.

OVER 800 METERS HIGH, BURJ KHALIFA IS THE WORLD’S TALLEST MAN-MADE STRUCTURE AND WELCOMES OVER 1.87 MILLION VISITORS A YEAR.

PERFORMANCE DRIVEN DESIGN
Touches on building design, documentation & delivery, engineering, analytics and performance evaluations to ensure that clients realize buildings that are aligned to their business, brand and design needs.
At over 1,000 meters with a total construction area of circa 500,000 square meters, the Jeddah Tower will be the centerpiece and first construction phase of the Jeddah Economic City development in Jeddah, Saudi Arabia.

The tower aims to be an iconic marker of Jeddah’s historic importance as the gateway to the holy cities of Makkah & Madinah.

Arcadis and Mace Joint Venture was appointed in September 2013 by the Jeddah Economic Company (JEC) as the Project Management Consultant for The Jeddah Tower.

Due to the complexity of building to previously unchartered heights Jeddah Tower shall require two Tuned Mass Dampers to be used to improve the wind-induced displacement response to the Spire and the long-term structural serviceability performance of the Tower Spire.

One of the main Health & Safety Risks associated with major construction activity at height is the lifting and the logistics associated with major plant and equipment. The specialized lift technology that will be utilised on Jeddah Tower will reduce the mass of the elevators travelling over 500 meters by up to 60%. The project also takes advantage of new energy conservation technology. The tower is to feature a high-performance exterior wall system that will minimize energy consumption by reducing thermal loads.

On Jeddah Tower, we have set up a specific performance management regime has been adopted to identify trends and forecast outcomes. This is of specific concern for tall buildings, where the compounded effect of delay to an individual task can have exponential consequences.

**JEDDAH TOWER**

**JEDDAH, KINGDOM OF SAUDI ARABIA**

- Jeddah Economic Company
- SAR 4.9 Billion
- 2012 - Present
- Commercial Developers

**COMMERICIALLY LED PROGRAM MANAGEMENT**

Exemplifies our program, project and cost management solutions and capabilities in complex real estate projects and large infrastructure development programs.
In an effort to build on Dubai’s growing economy, mega real estate developer EMAAR hired CallisonRTKL to create a master plan for its newest project, Dubai Creek Harbour. The goal for this 6 square kilometer urban district is to define the future of Dubai and foster environmental, economic, social and intellectual growth through a series of innovative and progressive city planning strategies.

Divided into seven distinct, but inter-connected, districts, Dubai Creek Harbour will offer a mix of cultural, commercial, entertainment and residential uses all designed around 2.2 kilometres of waterfront, as well as a series of sculpted lagoons and green boulevards. The development will be home to the tallest structure in the world – the recently-announced 928 meter tall Dubai Tower – an observation and entertainment icon that will herald Dubai as a center of economic development and will help Dubai maintain its position as an influential global city.

Dubai Creek Harbour, when completed, will be one of the largest master-planned developments in the world and the largest walkable community within the Middle East. CallisonRTKL ensured efficient phasing and delivery for the massive project by designing a series of distinct, self-contained but still connected neighborhoods and districts that make up the overall master plan.

Sustainable drainage, green roofs and multimodal transport including rental bicycles and an on-site bus and tram network help ensure the environmental sustainability of the project, its responsiveness to Dubai’s culture and climate and its adaptability for decades to come.
DOHA METRO GOLD LINE STATIONS

DOHA, QATAR

The Doha Metro is Qatar Rail's most prominent and visible project. The Gold Line is part of the first phase, opening to the public in late 2019.

Station design is critically important to our client. This demanded the highest standards in terms of the quality of finishing materials and overall workmanship. The client wanted a technically-focused team with the know-how to apply the complex Architectural Branding Manual requirements to the station public area designs with minimal impact to either. The tight timelines, with much concurrent work, required a company with scale and depth of expertise in its professional team.

The project is led by our Doha office with significant support from our Center of Excellence in Amersfoort.

• The scope of service includes the detailed design and coordination of all finishes within the public areas of the Underground Metro Stations, detailed design of entrances and finishes of associated above ground station and line-wide structures.

• The scope of design work includes ‘front of house’ interiors, fit-out of public facilities and customer service areas, and finishes to underpass networks, landscaping, and pedestrian footpaths, strictly in accordance with the client’s Branding Manual.

• Design disciplines include architecture, structural and MEP engineering, and landscape architecture.

• All work is executed using Building Information Management (BIM) computer-generated three-dimensional models.

The biggest challenge is the very tight timeframe. Arcadis has the size and depth of expertise to carry out concurrent work and demonstrated our ability to meet the challenge.

RAIL AND URBAN TRANSPORT SOLUTIONS

Provides cost effective, efficient and safe mobility throughout the lifecycle of rail assets by applying industry leading expertise in design, management and consulting. It covers all rail types (light, heavy, freight, high speed) and associated infrastructure, such as bridges and tunnels.

THE STATIONS’ DESIGNS WILL REFLECT THE HERITAGE OF QATAR
Due to Qatar’s rapid urbanization and need for increased security of water supplies, Qatar General Electricity & Water Corporation, KAHRAMAA, launched a water project to provide strategic water storage within its network and solicited Arcadis’ expertise to complete the challenge.

The scheme involves the design of five Primary Reservoir & Pumping Station (PRPS) sites providing ultimately 3,800 MIG storage capacity in 40 reservoirs, multiple corridor mains with an approximate combined length of over 400km and 200km of transmission mains.

The reservoirs will be some of the largest reinforced concrete storage tanks in the world, and the pumping stations at each PRPS site are believed to be amongst the largest of their type globally. The reservoir sites will be the largest potable water storage facility in the world.

WATER MANAGEMENT
Enhances the quality, safety and adaptability of urban and coastal, river-based and delta ecosystems. This includes systems (integrated coastal zone management, coastal restoration and protection, delta cities), flood management (flood risk management, dams, levees, storm surge barriers; climate change adaptation, risk and resiliency), riverine systems, and integrated water resource systems/ecosystems.
The Doha North programme of work being implemented for PWA Ashghal currently comprises of over fifty individual projects. It aims to enhance and upgrade the local roads, drainage and utilities in north Doha and covers an area extending to 947km². It is the largest of five areas which make up the Contract 2 Programme of work.

The individual projects were generally developed from concept designs through to preliminary and detailed design stages and required extensive liaison with third party stakeholders, such as other government departments, utilities companies, developers and local residents as well as interfaces with other Ashghal projects and high profile schemes associated with the FIFA 2022 World Cup™. In addition, the design work was undertaken while design standards were still being developed and changed to suit the Client’s requirements which led to extensive change management and flexibility in the design team approach.

A major challenge was to develop interim solutions whilst strategic key infrastructure was still to be designed or built. This particularly applied to the problem of surface water run-off, for which no long-term outfall existed. Arcadis developed a solution of deep aquifer injection to allow surface water run-off to be treated and returned for re-use. The programme also helped provide the local community with a ground-water lowering drainage network to safeguard against a rapidly rising ground water table.

The design and implementation of the schemes has required use of specialist technical skills and expertise of Arcadis across the global business, working as an integrated team to deliver the highest quality of design for our client.
HSBC is one of the world’s largest banking and financial services organisations. Headquartered in London, HSBC has a property portfolio in excess of 50 million square feet and is present in over 70 countries globally. HSBC needed to improve performance of their capex program, reduce cost, develop control, reduce risk and manage environmental impact.

This is part of a growing trend for corporates to adopt a program management approach to capital expenditure delivery, seeking the additional efficiency and effectiveness benefits this brings.

Arcadis has delivered a seamless transition to the Global Program Management operating model and provided a solid platform for setting up the operating model for success by working collaboratively with HSBC.

Under the contract, Arcadis is the primary service provider for project management, cost management, health & safety, sustainability and risk management for capital projects in the Europe, Middle East and Asia Pacific regions.

This program facilitated HSBC with:

- Better alignment to HSBC strategic objectives, policies and procedures
- Gaining control over global capital delivery and creating a singular approach globally providing efficiency savings
- To define and communicate compliance and assist in managing risks
- Allow HSBC to industrialise and corporate real estate to increase capability through knowledge transfer and upskilling
- Promote a continuous improvement culture and drive innovation
- A benefits profile and benefits realisation and tracking plan

### COMMERCIALLY LED PROGRAM MANAGEMENT
Exemplifies our program, project and cost management solutions and capabilities in complex real estate projects and large infrastructure development programs.
Ashghal has awarded Arcadis two contracts for this program: Group 5 and subsequently Group 2 North. In addition, Arcadis are employed as Contractor’s Designer on Project 23 (Contract 2), a 40km design and build section of the New Orbital Highway and Truck Route.

**ONCE COMPLETED, THE EXPRESSWAY PROGRAM WILL IMPROVE TRAFFIC FLOW, INCREASE SAFETY, REDUCE CONGESTION AND SHORTEN TRAVEL TIMES, AS WELL AS PROVIDING IMPROVED ENVIRONMENTAL OUTCOMES**

For the Group 5 contract, Arcadis is responsible for the design and supervision of:

- Two new sections of highway in north-east Qatar: Al Khor Bypass (35km), and Al Khor Expressway and Al Khor to Umm Birkah Road (26km)
- Upgrading of two stretches of existing dual carriageway: Lusail Development External Road
- Eight major grade separate junctions

Additional service requirements include the provision of collector, feeder, service and access roads, footways and cycleways. The design will interface with the metro red line, which will be in the central median along the Al Khor Expressway.

For the Group 2 North contract:

- The scope encompasses all services from concept design review to construction supervision for major roads north-west of Al Dafna

The key challenges of this inner-city project covering approximately 19km of main roads include dealing with utility congestion and complex geometry within narrow urban corridors.

All projects are also being delivered to level 2 BIM with full asset data embedded in design models ready to feed into Doha’s Smart City Enterprise Asset Management System (EAMS).
Bahrain has a pressing infrastructural demand for additional waste-water treatment capacity, given its rapid population growth and strong economic performance.

**MUHARRAQ SEWAGE TREATMENT PLANT**

MANAMA, BAHRAIN

- Samsung Engineering
- USD 3.28 Billion
- 2011 - 2014
- Contractors

The desired outcome was to provide the residents with adequate sewerage collection and conveyance network, sewage treatment facilities and a new deep sea outfall. The 29-year build-own-operate-and-transfer (BOOT) scheme is Bahrain’s first PPP project in the wastewater sector and a part of the Bahrain 2030 National Masterplan for Sanitary Engineering Services. It was delivered through a special purpose consortium made up of the contractor Samsung Engineering, the operator United Utilities, and the financier ADIC. The client and the consultants shared a commitment to health and safety by actively supporting the contractor’s numerous health and safety initiatives.

Arcadis was engaged as the design/engineering consultant of the project. The company’s mandate was to design the sewage treatment plant, deep gravity sewer, waste-water connection network, intermediate lift station, terminal lift station and long sea outfall. It was also awarded the civil, architectural and structural design, the review of the process and the MEICA design of the sludge incinerator plant.

**WATER SUPPLY & TREATMENT**

Provides safe water and protects the environment, encompassing drinking water (planning, supply and treatment), wastewater (planning, treatment, and disposal) and reclaimed water (planning treatment and reuse).
King Abdullah Financial District is considered the first major real estate project of its kind in the Middle East in relation to size, organization and technical specification.

Featuring 59 high-rise towers, a dedicated mono-rail system, 62,000 car park spaces, Grand Mosque and major infrastructure remodelling works, the key challenge facing the client was management of time and cost arising from changes in work scope. By applying technical sector expertise to key project issues surrounding change as it occurred, a solution-based approach was created for the Client which identified and analysed project risk in relation to time and cost.

The outcome was clear and unbiased advice to the Client on the options and potential outcome creating a strong and informed contractual position on which decisions could be made. The service stream was continuously monitored and reviewed to match the Clients requirements and desired outcome at any given point in time. Resource and technical skill set was managed effectively meaning key deliverables were cost effective.

Change and variation on a construction project is an accepted and inevitable occurrence during the delivery process. It is also a major source for conflict and dispute. By providing the Client with solid technical advice on risk and potential outcome, we delivered a business solution that protected their interests in the best way possible.

**KING ABDULLAH FINANCIAL DISTRICT**
Riyadh, Kingdom of Saudi Arabia

- Al Ra’idah Investment Company
- USD 10 billion
- 2008 – 2017
- Financial institutions

**CLIENT VISION IS TO CREATE A NEW ECONOMIC AND CULTURAL CAPITAL FOR THE REGION**

**CONTRACT SOLUTIONS**
Assists clients with complex issues like strategic procurement and contract advice, providing dispute avoidance or dispute resolution, as well as forensic support and expert witness services.
Designed with an expressive aesthetic and located adjacent to the famed Ferrari World, Yas Mall is uniquely positioned to become a leading international retail destination.

**YAS MALL**
**ABU DHABI, UNITED ARAB EMIRATES**

ALDAR Properties PJSC
Confidential
2009 – 2014
Retail

The design concept for the 345,000 square meters development is based on a modern interpretation of the natural landscape and traditional urban spaces. Featuring world-class retail and entertainment tenants and a high-end eatery arranged around a series of sky-lit courts and public concourses. The juxtaposition between nature and the urban environment creates a backdrop for artistic expression in storefronts, sculpture, paving, lighting, and forms the basis for the design of the project.

**THE MALL IS DESIGNED IN AN INTERLOCKING CIRCLE PATTERN THAT REFERENCES A TRADITIONAL ARABIC PATTERN**

PERFORMANCE DRIVEN DESIGN
Touches on building design, documentation & delivery, engineering, analytics and performance evaluations to ensure that clients realize buildings that are aligned to their business, brand and design needs.
Hamad Medical City is set to become the largest-ever healthcare facility in the Middle East and one of the biggest complexes to be built across the world.

The scale and complexity of the project reinforces the country’s efforts in building a strong and long-term multi-specialty medical center for the community of Doha. Spread across 250,000 square meters, the technical specifications required to build a healthcare facility make it a key challenge in itself. The service planning and physical design of a hospital are key factors in improving clinical outcomes and increasing operational efficiencies – and with new trends emerging in clinical service planning, medical equipment and hospital design, we have sought to incorporate these trends to demonstrate value and international best practice.

HMC needs to be ready to move into the new hospitals to realise new clinical and research services and release existing facilities for redevelopment – and has never operationally commissioned a healthcare facility of this scale. International projects and clients are looking for knowledge, experience and international best practice. The Arcadis team has brought all these attributes to the table – as well as a recognition that new challenges need personal and organisational mobility and flexibility and an integrated approach to client needs.
JEBEL ALI PORT
DUBAI, UNITED ARAB EMIRATES

As an integrated multi-modal hub offering sea, air and land connectivity, complemented by extensive logistics facilities, Jebel Ali Port plays a vital role in the UAE economy. It is a premier gateway for over 90 weekly services connecting more than 140 ports worldwide.

Arcadis is appointed as the independent design verification consultant for the topside works of container terminal 4. The project requires the design review of the proposed marine harbour quay walls, revetments, breakwaters, dredging works, semi-automated container yard components. This includes approximately 20km of stacking crane beams, rails and ancillaries, geotechnical improvements, 6-high container stacking foundations, heavy-duty pavement and reefer gantries, complete with the terminal wet and dry utility services, internal roads, port lighting scheme and substations.

Arcadis has provided planning, design, project and construction management, project controls and environmental services for more than 100 ports in 20 countries worldwide.

STRATEGICALLY LOCATED IN DUBAI, JEBEL ALI PORT IS AT THE CROSSROADS OF A REGION PROVIDING MARKET ACCESS TO OVER 2 BILLION PEOPLE

Jebel Ali Port operated by DP World UAE Region, is the largest marine terminal in the Middle East and the flagship facility of DP World’s portfolio of over 65 marine terminals across six continents.

PORT & INDUSTRIAL INFRASTRUCTURE SOLUTIONS
Offers reliable and cost-effective solutions for ports, power and industrial infrastructure based on international best practices, including planning, design, project and program management for harbor extensions, upgrades or fully new harbor development.
The Museum of Islamic Arts houses an important collection of artefacts illustrating the development of Islam and the evolution of the Arab culture from various geographic regions.

The museum contains exhibition spaces, galleries, an auditorium and a library for the display of manuscripts, weaponry, numismatics, art works and works of art depicting the orient. Located at a highly prominent site close to the Corniche Road, the 12,250 square meter museum has a built-up area of 30,600 m² which was constructed nearly 100 meters offshore within Doha Bay, and is linked to the mainland by vehicle and pedestrian bridges.

The four thematic sections on science, calligraphy, carpets, and paintings show specific materials related to each one of the nine historical sections providing the visitor an introduction to the museum collection. This area is also intended as a key to the museum discourse and as a preliminary guide for the museum visit. The museum also contains the directorate which houses administration offices, while the support services area contains storage spaces for exhibits not on display, and laboratories for the preservation and restoration of the museum’s collections.

The architectural form places emphasis upon the cultural, environmental and historical values emerging from the context. The traditions of Islam and Arab culture, along with the hot and arid climate of the State of Qatar, have influenced the design. Arcadis supervised and designed this iconic structure on the Doha skyline.
Jeddah Municipality has recognised the huge demand to improve mobility in the city and is undertaking an aggressive program to provide Jeddah with a public transport network.

THE NETWORK COMPRISSES OF METRO, LIGHT RAIL, A TRAM LINE RUNNING THE LENGTH OF THE CORNICHE, A BUS NETWORK INCLUDING BUS RAPID TRANSIT, A FERRY AND WATER TAXI NETWORK AND A COMMUTER RAIL LINE.

In Joint Venture with Foster + Partners, Arcadis delivered the Preliminary Design for Jeddah Metro stations to a demanding programme, on time and on budget. Our role was to provide the engineering solutions to Foster’s architectural schemes for both prototype and bespoke station designs.

The programme was very tight, and Foster work very fast with changes and improvements added continuously. We were also designing a number of different station arrangements: elevated, interchange and underground. We overcame the programme issues by co-locating with Fosters in London and working very closely as one integrated team.

Complex geometries, shell structures and landscape masterplans/guidelines in desert conditions were all challenges that required international collaboration both within Arcadis and with our partner and client.

Our Environment team rose to the challenge, particularly coaching the team to achieve LEED qualifications, a tall order in such a challenging environment.

We’re also proud of the “One Team” collaborative approach that worked so successfully, co-ordinating multiple Arcadis regional teams together as well as integrating with Foster + Partners.
Masdar is on a mission to advance the clean energy industry in Abu Dhabi and around the world. One of the ways Masdar advances this vision is through Masdar City.

To support the execution of this ambitious vision, Masdar called on the expertise of Arcadis’ sustainable planning and environmental teams. The team was appointed to provide a revised concept master plan for Masdar City, as well as a detailed master plan for phase one. The outcome was a streamlined vision for the City: to create a commercially-viable and sustainable city that offers both the highest quality of life and the lowest environmental footprint whilst still meeting local requirements and standards.

The team’s scope included due diligence on the previously approved master plans, as well as crafting a refined development approach to align the City with market trends and Masdar’s growing vision. The team also created an overarching sustainability strategy to include several key performance indicators to guide the overall development. This focused on the core themes of waste management, energy efficiency, water use and use of materials. The community was designed to achieve 4 Pearls through the Abu Dhabi Estidama Pearl Rating System.

We managed to integrate the vehicle access into the city while limiting its impact and still delivering the pedestrian oriented development which was part of the original vision. By doing this and managing the fast track approval process we are now seeing the city becoming a reality with major development happening on site.
The project was complex in nature - it consisted of numerous facilities including compression units and a 150 km gas pipeline that extended from Habshan to Ruwais.

In addition, the pipeline route by-passed a ‘planned’ residential complex. The environmentally sensitive areas and the planned residential complex were the main challenges on the project. Ensuring that necessary permits and licenses were obtained in a timely manner was a main issue of concern. Our team supported the design and engineering contractors in overcoming the typical issues faced when working in such areas. Given the experience our team offers, the necessary permits and licenses were obtained in due course. The issuance of the licenses and permits were based on the risk assessments conducted by the Arcadis team.

Arcadis supported the client in obtaining the necessary permits for the project at various design and engineering phases. Health, Safety and Environmental studies and assessments were delivered in line with local regulations.

The project was bound by an extremely tight schedule and permits were to be obtained over a very short period of time. Arcadis supported the client by developing quality reports in line with the clients’ expectations. In addition, general consultant professional advice was given to the client on a regular basis which ensured the highest levels of HSE standards. With the help of our experts, ADNOC received a first round approval of the report.
JEDDAH WATER MANAGEMENT
JEDDAH, KINGDOM OF SAUDI ARABIA

Jeddah was experiencing significant water outages due to shortcomings in the supply and distribution systems, with many residents having to augment supply through the purchase of tankered supplies. An urgent infrastructure rehabilitation was needed to deliver resource to customers.

The coverage of the sewerage system was relatively low and whilst the Ministry embarked on a major capital works program, there was an immediate need to integrate the delivery of these initiatives to maximise their effect, improve levels of service to customers and protect the environment.

Arcadis worked with the Ministry and other advisors to determine the appropriate scope of a long term (30 year) wastewater treatment concession. This would enable the phasing out of those works reaching the end of their useful lives as new works were commissioned with a performance based concession contract designed to treat wastewater to standards suitable for effluent and sludge re-use. In addition, Arcadis carried out technical due diligence and determined the performance regime and payment mechanism to be applied as part of the production of the technical appendices to the concession agreement.
Our client approached Arcadis to provide commercial due diligence to the project investors to assess a number of major variations by the EPC Contractor who was constructing the new Queen Alia International Airport in Amman, Jordan.

We were able to provide the required expertise and quickly identify the key issues and as a result of our advice, convinced the client to agree the variation at a significant cost reduction (in excess of US$3M).

Following the success of our initial involvement, we were also approached by AIG to provide on-going commercial due diligence support. Utilizing our regional 'should cost' knowledge and contractual expertise we were able to provide an accurate and balanced evaluation of submitted variations and claims.
Lusail City is a new mixed-use smart city development located immediately to the north of the capital, Doha. Lusail is intended to be a showcase of everything excellent that Qatar is capable of offering to the world.

The City will host the Confederations and World Cups in 2020, and 2022 respectively, and will accommodate a projected 400,000 residents and visitors by 2030. Lusail is intended to become a distinctive 21st century city and a destination of choice for visitors, residents and businesses. The overall challenge is the need to make the new City a practical and commercial success so that it becomes a vibrant positive place to live and a strong new community in Qatar.

There is clear evidence that delivering really strong social infrastructure via integrated and innovative education and health systems acts as a draw to residents and businesses alike. Equally there is international evidence that high quality education provision can drive up surrounding asset values by a few percentage points.

Arcadis agreed an engagement with Lusail to create a plan guiding every stage of development for the education and health infrastructure in Lusail. Early client engagement highlighted that the then scope and scale of the city’s masterplan did not align with the Lusail’s ambitions for its health and education service provision. Recognizing this, and working alongside LREDC, Arcadis recommended additions, alterations and enhancements to the masterplan before any significant costs were expended. We used our design and engineering expertise to develop technical design guidelines ensuring new buildings are fit-for purpose and aligned to the overall vision of Lusail.
Arcadis was engaged by the Majis Industrial Services Company (Majis) in Oman to provide asset management, contract operations, and related consulting services. Majis is owned by the government of Oman and provides chlorinated seawater, process water, potable water, and wastewater utility services to large industrial customers in the industrial port of Sohar.

The assignment was to conduct an asset inventory and build an asset register of all Majis water supply assets, including intake structures, pump stations, transmission lines, electrical systems, and control systems, along with the real estate that goes with such systems.

We also provided strategic consulting services to Majis to help them engage a strategic alliance partner to advance the management of their utility. The strategic alliance partner is responsible for co-management of Majis and for O&M services for wastewater and water facilities. Our scope included the preparation of solicitation documents, evaluation of proposals, and negotiation with the preferred bidder. In addition, performance specifications with key performance indicators, penalties, and incentives were prepared to ensure the optimum operation of the water system.

**WATER FOR INDUSTRY**

Strives to make businesses better through sustainable and effective water supply, treatment, management and conveyance solutions. This covers any water work for private, industrial clients, including the oil and gas, mining, chemical/pharmaceutical, automotive, conglomerate, power, and food and beverage sectors.
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